

1/C CU 2000V XLPE RHH/RHW-2 Power Cable

Power Cable 2000Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) insulation RHH/RHW-2

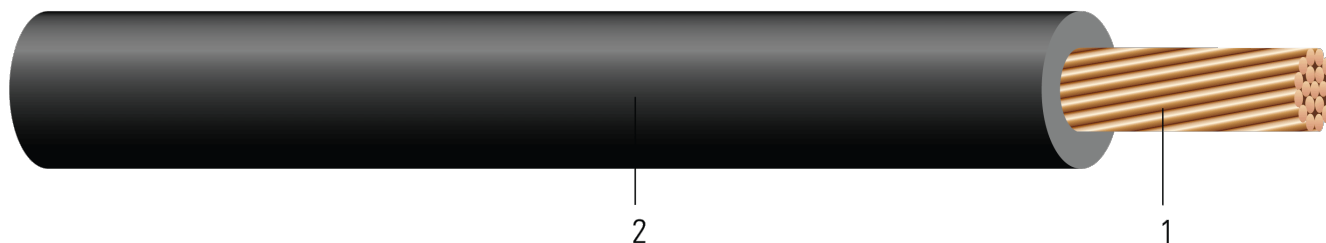


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RHH/RHW-2

APPLICATIONS AND FEATURES:

Southwire's 2000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-58-679 Control Cable Conductor Identification Method 4
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 MASTER-DESIGN {UL} XXX KCMIL (XXX{mm²}) CU TYPE RHH OR RHW-2 120 MILS XLP FOR CT USE SUN. RES. VW-1 2000 VOLTS {NOM}-ANCE



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Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/Kcmil	Diameter Over Conductor inch	Insul. Thickness mil	Approx. OD inch	Copper Weight lb/1000ft	Approx. Weight lb/1000ft
TBA	8	0.139	70	0.279	51	77
TBA	6	0.174	70	0.314	81	111
TBA	4	0.221	70	0.361	129	166
TBA	2	0.277	70	0.417	205	250
TBA	1	0.321	90	0.501	258	322
TBA	1/0	0.360	90	0.540	326	396
TBA	2/0	0.404	90	0.584	411	489
TBA	3/0	0.454	90	0.634	518	604
TBA	4/0	0.510	90	0.690	653	749
TBA	250	0.558	105	0.768	772	891
TBA	350	0.661	105	0.871	1081	1219
568018	500	0.789	105	0.999	1544	1706
TBA	600	0.866	120	1.106	1853	2051
648750	750	0.968	120	1.208	2316	2534
TBA	1000	1.117	120	1.357	3088	3336

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30°C (86°F).

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size AWG/Kcmil	Min Bending Radius inch	Max Pull Tension lb	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Allowable Ampacity At 60°C† Amp	Allowable Ampacity At 75°C† Amp	Allowable Ampacity At 90°C† Amp
TBA	8	2.2	132	0.652	0.815	0.038	40	50	55
TBA	6	2.5	210	0.411	0.514	0.035	55	65	75
TBA	4	2.9	334	0.258	0.323	0.033	70	85	95
TBA	2	3.3	531	0.162	0.203	0.031	95	115	130
TBA	1	4.0	670	0.129	0.161	0.032	110	130	145
TBA	1/0	4.3	845	0.102	0.128	0.031	125	150	170
TBA	2/0	4.7	1065	0.081	0.102	0.030	145	175	195
TBA	3/0	5.1	1342	0.064	0.081	0.029	165	200	225
TBA	4/0	5.5	1693	0.051	0.064	0.029	195	230	260
TBA	250	6.1	2000	0.043	0.055	0.029	215	255	290
TBA	350	7.0	2800	0.031	0.040	0.028	260	310	350
568018	500	8.0	4000	0.022	0.028	0.027	320	380	430
TBA	600	8.8	4800	0.018	0.024	0.027	350	420	475
648750	750	9.7	6000	0.014	0.020	0.027	400	475	535
TBA	1000	10.9	8000	0.011	0.016	0.026	455	545	615

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30°C (86°F).

